

IN THE CLAIMS

Please consider the claims as follows:

1. (Currently Amended) A method for use in a mobile station, the method comprising the steps of:

attaching to a wireless data network; and

performing asymmetric traffic class negotiation with the wireless data network during a single resource reservation protocol (RSVP) session by transmitting to the wireless data network, a quality of service information element (QoS IE) comprising at least two traffic class fields, one for an uplink direction and one for a downlink direction associated with the mobile station, said QoS IE further comprising at least one QoS class indicator for prioritizing a plurality of acceptable QoS traffic classes.

2. (currently amended) The method of claim 1 wherein the performing step includes ~~the steps of:~~ transmitting to the wireless data network the a-quality of service information element further comprising a traffic class indicator that is indicative of requesting asymmetric traffic classes.

3. (currently amended) The method of claim 1 wherein the performing step includes ~~the steps of:~~ transmitting to the wireless data network the a-quality of service information element further comprising at least one of alternate traffic classes and traffic class combinations comprising at least two traffic class fields, one for an uplink direction and one for a downlink direction associated with the mobile station.

4. (currently amended) The method of claim 3 wherein the quality of service information element further comprises at least two residual bit error rate fields, one for the uplink and one for the downlink; ~~as at~~ least two service data unit error ratio fields, one for the uplink and one for the downlink; and at least two transfer delay fields, one for the uplink and one for the downlink.

5. (original) The method of claim 1 further comprising the steps of: receiving data in accordance with a first negotiated traffic class; and transmitting data in accordance with

a second negotiated traffic class; wherein the first negotiated traffic class and the second negotiated traffic class are different.

6. (Currently amended) A method for use in a first packet server of a wireless network, the method comprising the steps of:

exchanging messages with a second packet server for the purpose of providing at least one service to a mobile station, wherein the exchanging step includes the step of transmitting to the second packet server a message associated with a single RSVP session comprising a quality of service information element (QoS IE) comprising a field for requesting asymmetric traffic classes for an uplink direction and a downlink direction associated with the mobile station, said QoS IE further comprising at least one QoS class indicator for prioritizing acceptable QoS traffic classes associated with at least one of said uplink direction and said downlink direction.

7. (Currently amended) The method of claim 6 wherein the quality of service information element further comprises at least two residual bit error rate fields, one for the uplink and one for the downlink; as at least two service data unit error ratio fields, one for the uplink and one for the downlink; and at least two transfer delay fields, one for the uplink and one for the downlink.

8. (Currently amended) A packet server comprising:

a transceiver for exchanging messages with a second packet server for the purpose of providing at least one service to a mobile station; and

a processor for causing to be transmitted to the second packet server a message associated with a single RSVP session comprising a quality of service information element (QoS IE) comprising a field for requesting asymmetric traffic classes for an uplink direction and a downlink direction associated with the mobile station, said QoS IE further comprising at least one QoS class indicator for prioritizing acceptable QoS traffic classes.

9. (currently amended) The wireless apparatus of claim 8 wherein the quality of service information element further comprises at least two residual bit error rate fields, one for the uplink and one for the downlink; ~~as at~~ least two service data unit error ratio fields, one for the uplink and one for the downlink; and at least two transfer delay fields, one for the uplink and one for the downlink.

10. (Currently amended) Apparatus for use in a mobile station, comprising:
means for attaching to a wireless data network; and
means for performing asymmetric traffic class negotiation with the wireless data
network during a single resource reservation protocol (RSVP) session by transmitting to
the wireless data network, a quality of service information element (QoS IE) comprising
at least two traffic class fields, one for an uplink direction and one for a downlink
direction associated with the mobile station, said QoS IE further comprising at least one
QoS class indicator for prioritizing a plurality of acceptable QoS traffic classes A
~~transmission frame representing data embodied in a wireless transmission signal, the~~
~~transmission frame comprising: a field for requesting asymmetric traffic classes for an~~
~~uplink direction and a downlink direction associated with a mobile station; a downlink~~
~~traffic class field; and an uplink traffic class field.~~

11. (New) The method of claim 10, wherein said at least one QoS class indicator for prioritizing a plurality of acceptable QoS traffic classes is associated with at least one of said uplink direction and said downlink direction.

12. (New) The method of claim 11, wherein said traffic classes are prioritized in ascending QoS traffic class order.

13. (New) The method of claim 11, wherein said traffic classes are prioritized in descending QoS traffic class order.

14. (New) The method of claim 11, wherein said traffic classes comprise at least two classes selected from the group consisting of conversational, streaming, interactive, and background traffic classes.

15. (New) The method of claim 1, wherein said at least one QoS class indicator for prioritizing a plurality of acceptable QoS traffic classes is associated with at least one of said uplink direction and said downlink direction.

16. (New) The method of claim 1, wherein said traffic classes are prioritized in ascending QoS traffic class order.

17. (New) The method of claim 1, wherein said traffic classes are prioritized in descending QoS traffic class order.

18. (New) The method of claim 1, wherein said traffic classes comprise at least two classes selected from the group consisting of conversational, streaming, interactive, and background traffic classes.